

Interview Agenda

Monday, March 8 at 2:00pm

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Initial Comments

Applicants would like to discuss the following applications (time permitted). If there are any questions or concerns, please call Jared Scholz at 703-668-8006, or 202-375-4143 (cell).

1. Application No. 10/541,50 (6111-000003)

Advisory Action dated February 18, 2010 (due March 18, 2010). Claims 22-24 are rejected under 35 U.S.C. §102(e) as anticipated by Wang (US 2005/0117649)

Proposed Amendments to Claim 22

22. (Currently Amended) A method of determining a reference field picture for decoding a current field macroblock in a bi-predictive frame, comprising:

determining, by a decoder, a reference frame picture index in a reference picture list for the bi-predictive frame based on a display order;

determining, by the decoder, a reference field picture for the current field macroblock from the a reference picture list composed of reference frames, by a decoder, the reference picture being one of a P picture and I picture, the determined reference field picture being one of a top field and a bottom field of a reference frame;

wherein the determining step determines a field having a same parity as the current macroblock or a different parity from the current macroblock as the a reference field picture based upon reference picture index information, index information for the reference frame, and field parity of the current field macroblock,

wherein if the reference picture index information is an odd index number, then the determined field has a field parity different from the current field marcoblock.

2. Application No. 12/285,292 (6111-000003/US/COJ)

Final Office Action dated February 12, 2010. Claim 23 is rejected under 35 U.S.C. §102(e) as being anticipated by Wang (2003/0099294).

Current Claim 23

23. (Previously Presented) A method of decoding a current field block by selecting a reference field picture performed by a decoder, comprising:

- obtaining, by the decoder, a reference frame picture list of multiple reference frame pictures information;
- obtaining, by the decoder, a reference field picture index associated with the current field block;
- determining, by the decoder, a reference frame picture from the reference frame picture list based on the reference field picture index divided by 2;
- selecting, by the decoder, a reference field picture for the current field block based on the obtained reference field picture index and the determined reference frame picture; and
- decoding, by the decoder, the current field block by referring to the selected reference field picture.

3. Application No. 12/232,955 (6111-000003/US/COE)

Office Action dated February 16, 2010. Claim 23 is rejected under 35 U.S.C. §102(e) as anticipated by Kondo (US 2004/0146109) and under 35 U.S.C. §103(a) as unpatentable over Kondo in view of VCEG. Kondo does not appear to be prior art.

23. (Previously Presented) A method of processing a current macroblock, comprising:

- obtaining a reference picture list including multiple reference pictures;
- determining first reference picture index information of the multiple reference pictures in the reference picture list based on display order information for the multiple reference pictures, and the multiple reference pictures being composed of frames;
- obtaining motion vector information for the current macroblock;
- obtaining a second reference picture index composed of fields;
- obtaining a modified second reference picture index for obtaining a reference picture in the reference picture list if the macroblock is coded at a field level, and the modified second reference picture index being determined by an operation of dividing the second reference picture index by 2;
- selecting a reference field picture based on the second reference picture index and the modified second reference picture index; and
- decoding the current macroblock based on the motion vector information and the selected reference field picture.

4. Application No. 12/232,957 (6111-000003/US/COU)

Office Action dated February 16, 2010. Claim 23 is rejected under 35 U.S.C. §103(a) as being unpatentable over Kondo (2004/0086044) in view of VCEG. Kondo does not appear to be prior art.

23. (Previously Presented) A method of decoding a current field block by selecting a reference field picture, comprising:

obtaining a reference frame picture list of multiple reference frame pictures information;

determining a reference frame picture index based on display order information for the multiple reference frame pictures, the reference frame picture index being allocated to reference frames having a greater display order than that of a picture including the current field block in the display order, and the rest of the reference frame picture index being allocated to reference frames having a less display order than that of the picture including the current field block in reverse order of the display order;

reordering a reference frame picture index allocated to each reference frame picture in the reference frame picture list;

obtaining a reference field picture index representing a reference field picture associated with the current field block;

determining a reference frame picture from the reference frame picture list based on the reference field picture index divided by 2 and the reordered reference frame picture index;

selecting a reference field picture having a different parity from the current field block if the obtained reference field picture index is a odd value based on the determined reference frame picture; and

decoding the current field block by referring to the selected reference field picture.

5. Application No. 12/232,954 (6111-00003/US/COO)

Office Action dated February 25, 2010. Claim 23 is rejected under 35 U.S.C. §103(a) over Kondo (2004/008644) in view of VCEG. Kondo does not appear to be prior art.

23. (Previously Presented) A method of decoding a current field block by selecting a reference field picture, comprising:

obtaining a reference frame picture list of multiple reference frame pictures information;

reordering a reference frame picture index allocated to each reference frame picture in the reference frame picture list;

obtaining a reference field picture index associated with the current field block;

determining a reference frame picture of the reference frame pictures included in the reference frame picture list based on the obtained reference field picture index and the reordered reference frame picture index;

selecting a reference field picture having a different parity from the current field block if the obtained reference field picture index is a odd value based on the determined reference frame picture; and

decoding the current field block by referring to the selected reference field picture.

6. Application No. 12/285,293 (6111-00003/US/COK)

Office Action dated February 24, 2010. Claim 23 is rejected under 35 U.S.C. §102(e) as being anticipated by VCEG.

23. (Previously Presented) A method of decoding a current field block by selecting a reference field picture, comprising:

- obtaining a reference frame picture list of multiple reference frame pictures information;
- obtaining a reference field picture index associated with the current field block;
- determining a reference frame picture of the reference frame pictures included in the reference frame picture list based on the obtained reference field picture index;
- selecting a reference field picture having a same parity as the current field block if the obtained reference field picture index is an even value based on the determined reference frame picture; and
- decoding the current field block by referring to the selected reference field picture.

7. Application NO. 12/285,151 (6111-00003/US/COP)

Office Action dated February 25, 2010. Claim 23 is rejected under 103(a) as unpatentable over Kondo (US 2004/0086044) in view of VCEG. Kondo does not appear to be prior art.

23. (Previously Presented) A method of decoding a current field block by selecting a reference field picture, comprising:

- obtaining a reference frame picture list of multiple reference frame pictures information;
- determining a reference frame picture index based on display order information for the multiple reference frame pictures, the reference frame picture index being allocated to reference frames having a less display order than that of a picture including the current field block in reverse order of the display order, and the rest of the reference frame picture index being allocated to reference frames having a greater display order than that of the picture including the current field block;
- reordering a reference frame picture index allocated to each reference frame picture in the reference frame picture list;
- obtaining a reference field picture index representing a reference field picture associated with the current field block;
- determining a reference frame picture from the reference frame picture list based on the reference field picture index divided by 2 and the reordered reference frame picture index;
- selecting a reference field picture for the current field block based on the obtained reference field picture index and the determined reference frame picture; and
- decoding the current field block by referring to the selected reference field picture.

8. Application No. 12/285,050 (6111-000003/US/COG)

Office Action dated February 25, 2010. Claim 23 is rejected under 103(a) as being unpatentable over Kondo (2004/0086044) in view of VCEG. Kondo does not appear to be prior art.

23. (Previously Presented) A method of processing a current macroblock, comprising:

- obtaining a reference picture list including multiple reference pictures;
- determining first reference picture index information of the multiple reference pictures in the reference picture list based on display order information for the multiple reference pictures, the multiple reference pictures being composed of frames, numbers of the reference picture index increasing for reference pictures having a decreasing display order and increasing for reference pictures having an increasing display order, and the index numbers of the reference pictures having a decreasing display order being greater than the index numbers of the reference pictures having an increasing display order;

- obtaining motion vector information for the current macroblock;

- obtaining a second reference picture index composed of fields;

- obtaining a modified second reference picture index for obtaining a reference picture in the reference picture list if the macroblock is coded at a field level, and the modified second reference picture index being determined by an operation of dividing the reference picture index by 2;

- selecting a reference field picture based on the second reference picture index and the modified second reference picture index; and

- decoding the current macroblock based on the motion vector information and the reference field picture.